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(54) HYDROPHILIC POROUS MEMBRANE AND ITS PREPARATION

(57)Abstract:

PURPOSE: To obtain porous membrane having elevated water permeability while maintaining high strength, chemical resistance and heat resistance by using a mixture of a hydrophilic water-insoluble polymer with a hydrophobic polymer having common solvent with the hydrophilic polymer.

CONSTITUTION: A mixture of a hydrophobic polymer with a hydrophilic water-insoluble polymer is used as a material for prepg. the porous membrane. The proportion of the hydrophilic polymer to be mixed with the hydrophobic polymer is 10W50wt% basing on the amt. of the hydrophobic polymer. It is necessary that the hydrophilic polymer and the hydrophobic polymer have a common solvent. Both polymers are dissolved in the common solvent. Preferred concn. is 15W25wt%. Further, the solvent consists preferably of a quick drying solvent and slow drying solvent in 50:50W95:5 weight ratio. The solution is casted and casted film is allowed to contact with a nonsolvent for the hydrophobic polymer to cause coagulation. Thus, hydrophilic porous membrane is obtd.

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